

(11) Publication number:

Generated Document

PATENT ABSTRACTS OF JAPAN

(21) Application number: 06010957

(51) Intl. Cl.: **H02M 7/537** H02H 3/20

(22) Application date: **02.02.94**

(30) Priority:

18.08.95

states: (84) Designated contracting

(43) Date of application publication:

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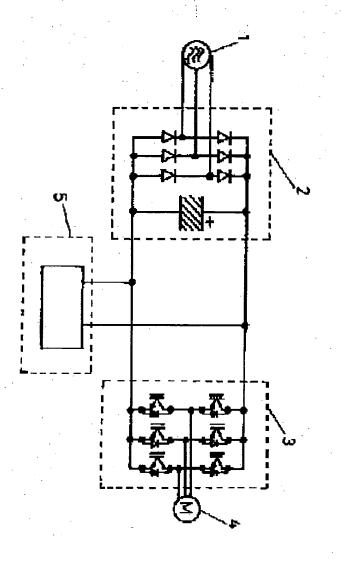
(74) Representative:

MODULE (54) MOTOR DRIVING IGBT

(57) Abstract:

sharp overvoltage caused by an avalanche breakdown is consumed by energy strength for a unit area than the FRD and an energy produced by a FRD and an IGBT which has a larger IGBT module is composed of an module by a method wherein the PURPOSE: To protect an IGBT substantially reduced. possibility of the breakdown is properties are improved and whose a power module whose heat radiation which has a lower breakdown strength than FRD and whose n--type composed of an FRD and an IGBT device caused by an avalanche drop. overvoltage breakdown of a power surge voltage into consideration, layer has a larger thickness to obtain protective circuit 5 is set taking a stops the operation of the inverter converter unit 2 and, if the detected supply 1 is converted into a DC there is a possibility of the operation voltage of the overvoltage unit 3 for protection. However, as the voltage exceeds a specified value, an inverter unit 3 to control a motor power by a converter unit 2 and, CONSTITUTION: A power supplied Therefore, an IGBT module is from a 3-phase or single-phase power further, inverted into an AC power by letects the output voltage of the . An overvoltage protective circuit 5

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18/03/2005